

## HUMBOLDT RIVER BASIN, LOWER HUMBOLDT RIVER BASIN

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV

LOCATION.--Lat 40°28'03", long 118°18'24" referenced to North American Datum of 1927, in SE  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec. 18, T.30 N., R.33 E., Pershing County, Hydrologic Unit 16040108, on right bank, 1,100 ft downstream from Rye Patch Dam, 1.5 mi northwest of Rye Patch, and at mi 49.45 above Derby Road bridge.

DRAINAGE AREA.--16,100 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--January 1896 to June 1898, June 1899 to December 1909, September 1910 to June 1917, September 1917 to September 1922, September 1924 to September 1930 (fragmentary), October 1930 to September 1932, October 1935 to September 1941, October 1943 to current year. Prior to October 1935, published as "Near Oreana."

REVISED RECORDS.--WSP 1714: Drainage area; WDR-NV-00-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,070. ft, above National Geodetic Vertical Datum of 1929 from topographic map. Prior to October 1, 1935, water-stage recorder or nonrecording gages at several sites about 7 mi downstream at different datum. October 1, 1935, to October 13, 1945, water-stage recorder at site 0.5 mi upstream at different datum. October 14, 1945, to April 9, 1991, water-stage recorder at site 75 ft downstream at datum 5.00 ft higher. April 9, 1991 to September 30, 1998, water-stage recorder at site 100 ft upstream on opposite bank, at same datum.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by Rye Patch Reservoir (station 10334500) since 1936. Records not adjusted for storage. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge prior to dam, 3,050 ft<sup>3</sup>/s, May 12, 1897, gage height, 12.0 ft, (datum then in use); maximum discharge after dam completed, 7,960 ft<sup>3</sup>/s, May 28, 1984, gage height, 13.65 ft (datum then in use); no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 557 ft<sup>3</sup>/s, June 29, gage height, 7.12 ft; minimum daily discharge, 0.04 ft<sup>3</sup>/s, November 10.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.24	0.07	0.11	0.51	0.31	0.25	0.51	365	23	354	163	49
2	0.22	0.07	0.12	0.42	0.35	0.18	0.53	452	24	254	235	94
3	0.20	0.06	0.16	0.40	0.30	0.25	0.95	463	8.7	135	128	133
4	0.17	0.06	0.17	0.27	0.29	0.46	162	478	0.78	93	145	143
5	0.17	0.06	0.17	0.20	0.29	0.23	455	489	1.2	16	180	166
6	0.13	0.06	0.17	0.18	0.32	0.22	197	468	1.6	8.8	243	97
7	0.13	0.05	0.17	0.19	0.33	0.21	129	411	2.0	43	192	80
8	0.14	0.05	0.19	0.17	0.28	0.23	113	447	2.2	8.7	140	43
9	0.14	0.05	0.22	0.17	0.20	0.20	106	391	41	72	99	43
10	0.11	0.04	0.24	0.17	0.22	0.11	103	404	58	82	107	44
11	0.13	0.05	0.21	0.19	0.21	0.13	137	374	58	92	49	43
12	0.13	0.06	0.27	0.24	0.22	0.15	125	276	57	132	34	42
13	0.12	0.07	0.23	0.25	0.22	0.16	120	225	113	137	48	73
14	0.10	0.07	0.29	0.28	0.22	0.16	122	216	120	130	51	52
15	0.10	0.07	0.28	0.29	0.22	0.17	123	173	190	128	142	16
16	0.10	0.07	0.31	0.29	0.25	0.15	124	144	162	128	176	2.5
17	0.10	0.07	0.36	0.29	0.28	0.14	109	122	287	130	166	2.7
18	0.09	0.08	0.37	0.29	0.29	0.16	65	71	268	98	108	2.8
19	0.10	0.08	0.38	0.30	0.25	0.17	143	56	236	102	99	3.0
20	0.10	0.08	0.52	0.27	0.23	0.15	276	55	236	70	99	3.1
21	0.09	0.08	0.62	0.25	0.25	0.15	257	55	227	71	100	2.8
22	0.09	0.09	0.42	0.23	0.27	0.17	256	47	310	72	25	32
23	0.09	0.09	0.44	0.22	0.30	0.19	223	21	370	72	7.7	68
24	0.09	0.09	0.50	0.21	0.30	0.19	232	23	419	73	42	50
25	0.08	0.09	0.43	0.20	0.37	0.28	301	27	304	73	14	71
26	0.08	0.09	0.42	0.23	0.31	0.32	306	20	262	127	9.9	71
27	0.08	0.09	0.49	0.31	0.23	0.41	320	20	336	162	48	84
28	0.08	0.11	0.47	0.29	0.22	0.38	345	20	432	235	88	134
29	0.07	0.11	0.47	0.29	0.24	0.51	344	21	540	213	119	80
30	0.07	0.11	0.42	0.27	---	0.56	378	21	473	231	95	13
31	0.07	---	0.40	0.26	---	0.74	---	22	---	206	59	---
TOTAL	3.61	2.22	10.02	8.13	7.77	7.78	5,572.99	6,377	5,562.48	3,748.5	3,211.6	1,737.9
MEAN	0.12	0.07	0.32	0.26	0.27	0.25	186	206	185	121	104	57.9
MAX	0.24	0.11	0.62	0.51	0.37	0.74	455	489	540	354	243	166
MIN	0.07	0.04	0.11	0.17	0.20	0.11	0.51	20	0.78	8.7	7.7	2.5
AC-FT	7.2	4.4	20	16	15	15	11,050	12,650	11,030	7,440	6,370	3,450

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 2004, BY WATER YEAR (WY)

MEAN	108	35.7	42.0	66.1	61.7	159	438	628	546	443	262	153
(WY)	(1999)	(1999)	(1984)	(1984)	(1984)	(1983)	(1984)	(1984)	(1984)	(1984)	(1995)	(1995)
MAX	430	366	979	1,310	1,142	2,206	3,579	6,215	4,981	1,983	990	716
(WY)	(1936)	(1936)	(1936)	(1936)	(1936)	(1937)	(1991)	(1955)	(1961)	(1991)	(1961)	(1992)
MIN	0.00	0.00	0.00	0.00	0.00	0.14	104	22.8	1.54	0.42	0.12	0.12
(WY)	(1936)	(1936)	(1936)	(1936)	(1936)	(1937)	(1991)	(1961)	(1991)	(1961)	(1992)	

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 10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1936 - 2004
ANNUAL TOTAL	18,912.07	26,250.00	
ANNUAL MEAN	51.8	71.7	
HIGHEST ANNUAL MEAN			246
LOWEST ANNUAL MEAN			2,004 1984
HIGHEST DAILY MEAN	402	Apr 30	29.2 1955
LOWEST DAILY MEAN	0.04	Nov 10	0.00 Oct 1, 1935
ANNUAL SEVEN-DAY MINIMUM	0.05	Nov 5	0.00 Oct 1, 1935
MAXIMUM PEAK FLOW		557	7,960 May 28, 1984
MAXIMUM PEAK STAGE		7.12	13.65 May 28, 1984
ANNUAL RUNOFF (AC-FT)	37,510	52,070	178,200
10 PERCENT EXCEEDS	217	238	568
50 PERCENT EXCEEDS	0.33	0.59	101
90 PERCENT EXCEEDS	0.09	0.09	0.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1896 - 1932, BY WATER YEAR (WY)

MEAN	39.9	42.5	67.4	92.5	163	301	476	527	446	517	159	53.0
MEAN	39.9	42.5	67.4	92.5	163	301	476	527	446	517	159	53.0
MAX	167	192	259	296	672	1319	1757	2692	2113	2003	605	248
(WY)	(1908)	(1908)	(1900)	(1914)	(1914)	(1901)	(1907)	(1897)	(1897)	(1899)	(1899)	(1907)
MIN	0.00	0.00	0.00	0.00	0.00	16.3	7.83	13.2	0.033	0.00	0.00	0.00
(WY)	(1931)	(1931)	(1931)	(1931)	(1931)	(1920)	(1920)	(1905)	(1920)	(1920)	(1931)	(1931)

SUMMARY STATISTICS                                   WATER YEARS 1896 - 1932

ANNUAL MEAN	228
HIGHEST ANNUAL MEAN	702
LOWEST ANNUAL MEAN	8.57
HIGHEST DAILY MEAN	3050
LOWEST DAILY MEAN	.00
ANNUAL SEVEN-DAY MINIMUM	.00
INSTANTANEOUS PEAK FLOW	3050
INSTANTANEOUS PEAK STAGE	12.0
ANNUAL RUNOFF (AC-FT)	165100
10 PERCENT EXCEEDS	681
50 PERCENT EXCEEDS	90
90 PERCENT EXCEEDS	4.0